

PROGRESS REPORT.
OF
FOREST ADMINISTRATION.

IN THE



Jodhpur State, Rajputana.

FOR THE YEAR 1910-II.

BY

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Offg. Superintendent of Forest Department.

JODHPUR.

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Review on Forest Report.

COMPLIMENTARY

CONSTITUTION OF FOREST.—The survey and demarcation of the Jalore Jaswantpura, and Hinglaj Indrana forests newly brought under Forest Conservancy having not been completed, the area during the year remained the same as it stood on the departmental books last year. *Gusaras* for goat grazing will have to be set apart from the Siwana forests. These transactions would, it is expected, result in a net increase of about 22 square miles. The old pillars were kept in good repair and 16 chains of outer boundary line in Sojat range were cleared. The survey work has, as remarked by the new Superintendent, made little progress and the maps are quite incomplete. For this purpose one local Surveyor has been engaged and another is being trained.

MANAGEMENT OF STATE FORESTS.—Mention has been made in the previous reports of the introduction of the working plans in the forest area from Nana to Dipawas; but it is remarkable that neither the fellings were regulated nor were coupes surveyed, nor was the contractor's work controlled nor were other provisions laid out, so that the new Superintendent was directed to draw out a report about the revised working plans and prepare the required appendices and supplementary statements. The fuel market was rather dull and the previous year's contractors had cut the more easily accessible areas, the consequence was that the coupes did not secure as favourable a price as before. I am inclined to agree with new Superintendent that this important branch of the Forest business as well did not receive the attention it deserved.

With a view to open up the inaccessible forests of Bali and Desuri Perganas, it is proposed to extend the Jodhpur-Bikaner Railway from Marwar Junction to Desuri, Sadri and Bali, whereby the transport of forest produce will be greatly facilitated. Ten miles of *Haripur-Khejri-ki-gawar* cart road was constructed and 5 miles of Kucha cart roads in Godwar Range were maintained. These cart roads did not receive their due share of attention in the past but arrangements are being made to improve and extend them.

PROTECTION OF FORESTS.—There was a satisfactory fall in the number of forest offences as also in that of the cattle pounded, due to the grant of free permission for grazing cattle and cutting grass on account of the prevailing scarcity. It is rather regrettable that there were 8 occurrences of fire which burnt 1·59 per cent of the area attempted to be protected.

SYLVICULTURE.—It is a matter of regret that owing to the deficiency of rainfall, the germination of seeds totally failed and seedlings and coppice shoots of the previous years suffered greatly. The same was the case with artificial reproduction. The Lac propagation experiment was again attempted, though for certain reasons the percentage of success was rather small. The experiment with imported seed lac from Rewa proved an utter failure, owing presumably to its inability to stand the dry and hot climate of this country. I have impressed upon the Superintendent the necessity of giving further trial to indigenous Peepal lac.

EXPLOITATION.—The fellings are not only hopelessly scattered but as both the contractors' and permit holders' fellings were promiscuously mixed up, they could not be properly controlled. I have therefore given necessary instructions to the Superintendent to make necessary provision at the compilation of the working plans.

There has been a sharp drop in the exploitation of fuel being the direct result of the stoppage of fuel to the State Departments and the paucity of labour; but there was a great demand for timber for agricultural purposes and hence there was an increase in the quantity of timber that was removed.

FINANCIAL RESULTS.—The figures show an apparent increase in the departmental receipts as compared with the past year but this can by no means be treated as an enhancement since the receipts were swollen only by taking advances from the contractors that shall have to be accounted for during the current and next few years.

The receipts from the major and minor produce were 72·6 per cent and 22·0 per cent respectively of the total receipts against 71·5 and 21·5 per cent of the previous year. The expenditure however rose from Rs. 41,217/- of the previous year to Rs 43,413/- of which 61·3 per cent was spent on extension, improvement, protection and exploitation and 38·7 represent the establishment charges.

STORAGE OF GRASS.—It is to be regretted that the Forest Department did not store any grass. The attention of the new Superintendent has been drawn to the necessity of stocking grass to meet adverse seasons and of trying the experiment of ensilage.

ARBORICULTURE. 636 trees were planted in gaps on the road sides but owing to unfavourable rainfall only 100 plants were supplied free to the public. Owing to the transfer of Sadri and other nurseries and all the gardens from the Forest Department to the P. W. Department, the number of plants in the departmental nurseries and plantations was considerably less than that of the previous year.

GENERAL.—Babu Lachman Das who was in charge of the department throughout the year has since gone to Poonch. I am sorry to have to say that I do not see my way of repeating the encomia that he used to get in the past. An examination of the departmental records confirms my conviction that things in the past were anything but satisfactory.

The subordinate staff has simply assisted the departmental head in creating a chaos as far as records and accounts are concerned.

(Sd). SYAM BIHARI MISRA,
Rai Sahib,
REVENUE MEMBER OF COUNCIL,
Marwar State.

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PROGRESS REPORT
OF
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IN THE
Marwar State
For 1910-11

INTRODUCTION.

1. Babu Lachman Das remained in charge of the Department throughout the year; only the work of compiling this report has fallen to the writer.

CHAPTER I.

Section I.—Alteration in Areas.

2. An area of about 23 sq. miles has been excluded from Siwana forest owing to leaving out of *Gusaras* for goat grazing. The decrease will be accurately ascertained and brought to returns the next year after survey.

3. About 45 sq. miles of Jalore, Jaswantpura and Hinglaj Indrana newly reserved areas could not be taken in the returns as their survey and demarcation are still in hand.

4. The area is classed as under:—

Reserved Forests	Nil	
Protected „	335.48	Square miles.
Unclassed or public forest land	30.	„ „
Lensed forest	Nil	„ „
Total				365.48	

5. The area stands as under:—

Forest conservancy	275.11	Square miles.
Fuel and Fodder reserves	20.	„ „
Jagir Forest	70.37	„ „
Total				365.48	

Section II.—Forest Settlement.

6. *Gusaras* having been provided for right holders in the forests of Siwana Range, the compensation to be given to Jagirdars is being settled, For reasons stated in para (3) above, the forest areas reserved in the Jalore and Jaswantpura Perganahs and Hinglaj-Indrana remain to be settled; so also the question of leaving out *Gusaras* in the Parbatsar Range is still pending.

Section III.—Forest Demarcation.

7. The old boundary line in Siwana forests had to be almost wholly changed on account of exclusion of *Gusaras* and the *Kutch* stone boundary marks newly put on, shall have to be made of the full size and shape the next year along with the survey operations.

8. The old pillars were kept in good order. About 91 *Kutch* pillars still remain to be replaced by Pucca masonry ones in Godhwar and Sojat Ranges, 16 chains of the outer boundary line clearing in Sojat Range have been done through contractors, the yield therefrom being allowed to be removed by them on payment of 0-0-6 per maund royalty.

Section IV.—Survey.

9. 2 Surveyors Gulab Chand and Birdh Raj were engaged, the former from the month of April in Sojat Range surveyed about 4 sq. miles and prepared tracings of maps, the latter from the same month in Siwana Range where he picked up work of forest Survey in conducting the preliminary field work of a few small patches of forest and prepared their rough sketches which are still incomplete.

10. Really, the survey work has been progressing very slowly and irregularly while the maps already prepared show but little interior details; some other efficient arrangements shall have to be made.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

Section I.—Regulation of management.

(a) Preparation and control of Working Plans.

11. In the 2 important Ranges of Sojat and Godhwar, the whole of the Dhao (*A. pendula*) forest zone has been put under a preliminary sort of Working Plan. The fellings have yet to be properly regulated and the coupes have to be surveyed; allocation of future coupes has yet to be prejudged; record of standards and data of yield of coupes etc. shall have to be regularly kept. The contractors' work has not been fully controlled and other provisions of the Plan are neither definitely laid out nor fully adhered to. This year, however, the Working Plan report has been drawn out and it is hoped that in a year or two appendices and supplementary statements will be prepared and preliminary and supplementary operations will be completed to put the working of the plan on a sound basis after a thorough and careful revision of the prescriptions and clearing up of the arrear work. Out of the 55 coupes taken up for working, the majority still remain in the hands of the contractors for felling; of these some *e. g.*, coupe ^{No. 2} ~~Lakara~~, ^{No. 1} ~~Sadhr~~, remaining uncut or partially cut since 1908-09, while selected petty timber has been cut by the contractors all over the contracted area. In some blocks, the coupes have been felled in advance, *e. g.*, in

Nana block, coupe No. 6, 7, 8 of 1911-12, 12-13 and 13-14 and in Bijapur, coupe No. 6, 7 of 1911-12 and 12-13 and so on. This is due to contractors being prone to cutting more easily accessible and nearer areas and the excessive departmental fellings, for clearing demands of contractors from whom advances had been received, while in others the working is much behind. The total cost incurred on account of Working Plans and survey comes to Rs. 2,042-12-9. This year the coupes did not fetch good prices at the sales owing to slackness of fuel markets due to scarcity conditions; while 4 coupes remained unsold. In the year 1908-09 the prices obtained for coupes ranged from Rs. 6-1-0 to Rs. 3-6-0 per acre; while this year they have fallen to Rs. 2-8-0 to 2 per acre. This appears to be due to fuel market being rather dull; the contractors hands being full with the excessive work they had accumulated with themselves and competition being indifferent. All this indicates all but a satisfactory state of affairs in this important branch of the forest business.

(b) Preliminary Working Plans

Nil.

(c) Plan of operations.

Nil.

Section II.—Communications and Buildings.

(a) Roads and Bridges.

12. *Godhwar Range*.—No important repairs were made to the existing roads this year. A number of Kutcha cart tracks aggregating to 5 miles have been maintained in the Range to facilitate extraction of fuel from coupes @ a cost of Rs. 181-11-3 charged to head A. I. b. It would be better to improve and extend them and keep them in good working order to open up the inaccessible areas and remote portions of the forests.

13. *Sojat Range*.—The old existing roads which form a good number need thorough repairs and improvements to render them fully serviceable; and in the next year's Budget sufficient provision should be made for them. 160 chains of Kutcha cart tracks and 200 chains of bridle paths in Dhal &c forests were prepared at a cost of Rs. 166-2 to facilitate contractors' fuel operations, charging the expenditure to the head A. I. b. The construction of the Haripur-Khejri-ki-Guwar cart road was taken in hand and about 10 miles of the road were laid out at a cost of Rs. 1,270-5-9 which have been charged to miscellaneous accounts, not included in Forest Budget. The difficult portion of the road amidst high hills remain to be done and the portion already constructed stands in need of improvements to render the road fully serviceable.

(b) Buildings.

14. Rs. 19/ were spent in Godhwar and 105-15-9 in Sojat Range for white washing, plastering and petty repairs of the existing Forest Chowkies. There are in all 11 chowkies, in Godhwar and 16 in Sojat

Range; most of them being Kutcha buildings require a good deal of repairs, otherwise they would tumble down. In the next year's budget sufficient provisions should be made for them, after preparation of careful estimates.

No new building were constructed.

(a) Miscellaneous.

15. The *pucca* shed at Marwar Junction prepared for storing grass as a provision against bad years, requires lot of repairs and improvement in its roofing especially. It would be better to cover it with galvanized iron sheets. The construction of another similar shed at Nana Station commenced in the year 1908, still remains incomplete. It would be better to complete it for the storage of grass and other forest products.

Section III. Protection of Forests.

(a) General Protection.

16. The *grassias* and Criminal Tribes behaved well; 175 cases of forest offences in State forests were noticed during the year against 200 in the last year; of these 10 were chalaned to Hakumats and the rest disposed of departmentally. The Hakumats decided 9 cases, convictions being obtained in 7, and 3 remained pending with Bali, Sojat and Siwana Hakumats. 14 cases of Forest offences were observed in Raipur Jagir forests and were compounded departmentally. The decrease is due to grant of free permission for grazing cattle and grass cutting in the past rainy season owing to scarcity.

The following table shows the cases compounded departmentally as compared with the average of last 3 years.

Class of offence.	Average for past 3 years.	Offences during the year under report.	Remarks.
Injury to forest by fire	7	3	*Includes 14 casses of Raipur Jagir forests.
Unauthorized fellings or removal of produce	75	111	
Grazing	60	26	
Other offences	48	39	
Total	190	179*	

2,856 cattle were impounded for illicit grazing in State forests against 3,147 of the last year; the decrease is due to free permission of cattle grazing having been given in the latter part of the year on the failure of the monsoon.

(b) Protection from fire.

17. There were 8 occurrences of fire in State forests, one in Sojat and seven in Godhwar Range; of these 3 originating inside and the rest entering the forest from the outside, burnt an area of 2,139 acres. One fire took place in Ghanerao Jagir forest affecting an area of 1,280 acres.

The total area burnt comes to 3419 acres or 1.59 per cent of the area attempted to be protected.

The total cost amounted to Rs. 181 for Godhwar, Rs. 126-13-3 for Sojat Range and Rs. 4-12-0 for Jagir or Rs. 14-11-0 per sq. mile.

(c) Protection from cattle.

18. Owing to the failure of monsoon rains in the latter part of the year, the forests had to be reopened for free grazing of horned cattle soon after their being closed as usual at the outset of rains; thus practically the cattle grazed all over the area throughout the whole year. But goats, sheep and camel were not allowed to graze inside the forests.

It has to be added with regret that, owing to insufficiency of *Gusaras*, the obstinacy of the Raikas (goat graziers), corruption of some of the subordinate staff and scarcity conditions, serious cases of illicit goat grazing and damage to vegetation in Siwana and Parbatsar forests were noticed. These cases are still under investigation and consideration.

15,090 cattle, mostly of the Right-holders, were admitted for grazing in the State forests as against 20,118 last year. The decrease is due to plenty of grass in the areas outside forests owing to good rains during the early part of the year.

(d) Protection against injuries from Natural Causes.

Nil.

Section IV.—Sylviculture.

(a) Natural reproduction.

19. The rains were neither sufficient nor well distributed during the monsoon season, the record in Sojat and Godhwar Ranges being 5"—23 and 7"—10 cents respectively.

The germination of the seeds totally failed, while seedlings and coppice shoots of past year especially those of Dhao (*A. pendula*) suffered the most.

20. The results of the areas hitherto capped as reported by the Range officers are shown below:—

Godhwar Range				Length.	Girth.
Sadri, 1896-97 ...	Khair	20.5	1.7
Bhera 1896-97 ...	{ Siris	24.2	1.8
	{ Khair	23.1	1.8
	{ Gol	31.6	3.33
Desuri 1905 ...	{ Dhao	11.2	.61
	{ Bor	20.	.7
	{ Adra	25.6	.75
Latara 1905 ...	{ Dhao	11.	.6
	{ Khair	18.5	.7
	{ Kumatia	17.1	.8
	{ Bor	21.	1.4
Bijapur 1906-07...	{ Dhao	11.5	.59
	{ Bor	19.9	.9
	{ Khair	16.7	.7
Nana 1906-07 ...	{ Khair	15.	.86
	{ Dhao	10.	.59
	{ Bor	20.	1.16
	{ Khirni	13.83	.75
Sewari 1907-08 ...	{ Khair	13.	.56
	{ Dhao	8.5	.38
	{ Bor	13.9	.87
Sojat Range					
Gudha Dhamtan, 1891-92.	Bor	18.6	2.
Nimbri 1903-04...	{ Khair	12.5	1.
	{ Bor	12.1	1.2

(b) Artificial Reproduction.

21. There are no Taungya plantations.

22. Seeds of better species chiefly Dhao (*A. pendula*), Khair (*A. catechu*) and Babool (*A. arabica*) were sown in pits in blank areas at a cost of Rs. 21/10/6 in Godhwar Range. The germination is said to be fair, but the insufficiency of the rains proved fatal to tender seedlings. The total expenditure under this head came to an exceptionally large sum of Rs. 442/13/3 owing to the cost of collection and carriage of large quantities of Babool, Kher, Bor &c., seeds intended for extensive sowings

in the various Fuel and Fodder Reserves and along the course of the Luni river. But a greater portion of these seeds remained unutilised for want of rains and is stored up for the next year's operations.

23. The planting of bamboo rhizomes was not attempted this year for reasons cited above.

24. The nursery at Sadhri was transferred with the gardens to the Public Works (Engineering) Department; while the Saran nursery was maintained throughout the year, there being 293 plants at the end of the year in it. It requires improvement which will be undertaken next year.

(c) Operations for the improvement of the growing stock.

Nil.

(d) Experiments.

25. The Lac propagation experiment was continued. This year the indigenous insect found on Peepal (*F. religiosa*) and Bar (*F. indica*) was tried with better results. Out of the 125 trees infected, success was attained on 11 Ber (*Z. Jujuba*) trees at Nana and 13 Bar (*F. indica*) &c., at Saran. The larvæ, however, failed to thrive on Dhak (*B. frondosa*). The percentage of success is small owing to unfavourable rainy season and the seeds having been planted rather late when most of the larvæ had swarmed out, owing to the proper season for the brooding of local insect being not well known before hand.

26. Experiment made with Rewah forest (C. I.) Lac seed, on Arhar (*Cajanus indicus*) field crop at Sardar-Samand and Dhak (*Butea frondosa*) Ber (*Z. Jujuba*) trees in Nana forests proved a total failure owing partly to the foreign seed which could not stand the severity of the dry hot climate of this country and so the indigenous Pipal Lac seed was suggested for further experiment taking a lesson from the success in the Gawalior forests with local seed there.

Section V. Exploitation.

(A).—SYSTEM OF MANAGEMENT.

(a) Major produce.

27. Coppice with standards system has been adopted in the Dhao (*A. pendula*) or lower zone of all the forests; but almost unrestricted fellings as per 7 sort of Permit system still continue practically in both the Zones under cover of working the salar (*B. serrata*) or the higher Zone. Thus, the coppice coupe contractor's and the permit holder's fellings cannot be properly controlled. To add to the difficulty the timber extracted from these forests for local markets being of a petty nature mostly obtainable from selected branch wood from out of the crowns of trees and young growth, the fellings are hopelessly scattered. Also the timber demands of right-holders for agricultural purposes are considerable and continue almost throughout the year, so that the proper regulation and

control of fellings would be a very tedious and difficult task. This should be specially attended to at the time of revision and final compilation of the present Working Plans.

(b) Minor produce.

28. The minor produce is allowed to be removed by purchasers by the lease system; while grazing dues are collected at fixed rates and for specified periods as per permit system as mentioned in the previous Report.

(B)—AGENCY OF EXPLOITATION.

(a) Departmental agency.

29. 31,918 cubic feet of timber and 1,69,201 cubic feet of fuel were removed during this year against 26,225 cubic feet and 2,03,752 cubic feet respectively the last year. The increase in timber is due to better demands for wood used in agricultural operations while the fall in fuel has resulted from the fuel supply to State Departments having been stopped and labour being not abundantly available.

30. The total revenue by Departmental agency was Rs. 33,072/1/9 against Rs. 27,353/10/3 of the last year or 58.6 per cent of the total revenue. Out of this Rs. 1,627/10/3 were obtained from sale of minor produce and bamboos.

(b) Purchasers

31. The purchasers removed 8,777 cubic feet of timber and 2,42,053 cubic feet of fuel against 8,162 cubic feet and 2,97,457 cubic feet respectively of the last year. The decrease in fuel is due to the contractors' undertaking no new purchases, their hands being full with the arrear business and petty purchaser's demands being fulfilled from the contractors' stocks. The outturn from coppice coupes cut by contractors is not included in these figures; nor is any record kept of such removals.

32. The sale of bamboos and other minor produce amounted to Rs. 1,111 and Rs. 2,887 as compared with Rs. 547/12/3 and 2,678 last year. Anwal bark contracts gave a sum of Rs. 3,500 realised in instalments during the year.

(c) Rights and Privileges.

33. The total quantity of timber and fuel removed by Right holders during the year was 38,948 cubic feet and 1,72,223 cubic feet respectively as compared with 28,357 and 2,27,668 cubic feet last year. The increase is due to the agricultural operations being extended for good rains. Rs. 291 are estimated) as price of bamboos and Rs. 4,396 that of other minor produce as compared with Rs. 15 and 4,268 respectively last year.

(d) Free grants.

34. The timber given free amounted to 1,313 cubic feet. As regards minor produce, the details may be seen from Form No. (58)

(c) Outturn and sources of Forest produce.

35. The total outturn of major produce from State Forests is calculated to be 80,956 cubic feet of timber and 5,83,477 cubic feet of fuel as against 62,744 cubic feet and 7,28,877 cubic feet respectively during the preceding year. The value of minor produce removed during the year came to Rs. 10,307 against Rs. 9,261 last year.

36. 15,090 cattle were admitted for grazing in the State Forest against 20,113 last year.

37. The total expenditure on the management of State Forests came to Rs. 24,206/5/3 against Rs. 23,743 in the last year.

CHAPTER III.

FINANCIAL RESULTS.

38. The following table shows the revenue and expenditure of the year under report in comparison with those of the preceding year and the average of the past 5 years.

Year.	Receipts	Charges.	Surplus.	Remarks.
1910-11	56,418	43,413	13,005	Includes Rs. 3,500 for Annual.
1909-10	55,822	41,217	14,605	Includes sale proceeds of Annual Rs. 3,400.
Average of 5 years ...	70,552	54,376	16,176	

The revenue received from major produce during the year under report came to Rs. 40,976/8/0 showing an increase of Rs. 1,056/11/3 due to better collections in Godhwar Range as compared with that received during the previous year. It is 72·6 per cent of the total revenue. The sales from minor produce including bamboo, grass, grazing &c., brought in a sum of Rs. 12,444/12/3 which is about the same as last year and represents 22 per cent. of the total revenue.

39. Rs. 2,996/5/9 representing 5·4 per cent of total revenue were realised from other sources.

40. 58·6 per cent of the total revenue was realised through Raj agency and 41·4 per cent otherwise.

41. The total expenditure of the year amounted to Rs. 43,413/0/3 showing an increase of Rs. 2,196/2/6 which is due to Rs. 856/6/6 more spent under conservancy and works and the remaining under establishment.

42. 61·3 per cent of the total expenditure was incurred on account of extension &c. while 38·7 per cent have been covered by establishment charges.

43. In revenue Rs. 6,867 were received in advance for sales of the coming year; while about Rs. 2,300 were spent on account of clearing past year's arrear demands of contractors which renders the financial statements rather complicated, misleading and abnormal.

CHAPTER IV.

ADMINISTRATION.

44. The relations with the Revenue Department were good.
45. The Foresters, Head guards and guards generally worked well.
46. The Jamiat sowars were regularly supplied by the Bakshi Jagir.
47. Forest Inspector Rikheshwar held charge of Sojat Range and Working Plans branch; the latter work is not up to the standard aimed at. Forest Ranger Chatur Bhuj returned from leave and was appointed Inspector of Industries, development of minor products, settlement of *Guzaras* &c. While, Forest Ranger Gokal Chand held charge of Godhwar Range and gave satisfaction.
48. The office work and accounts are greatly in arrears, irregular and unsatisfactory; especially the Ledger accounts of the contractors &c. being not properly kept, a great difficulty is felt in clearing their accounts.

CHAPTER V.

GENERAL.

Section A.—General Remarks.

49. No more grass was cut during the year. The balance in hand at beginning of the year stood at 29,830 maunds out of which 2,290 maunds were struck off for wastage.

The balance stands distributed as under:—

Godhwar Range	15,310
Sojat „	10,052
Sewana „	1,434
Luni-Badmer F & F. R.	744
Total			27,540

Section B.—Fuel and Fodder Reserves.

50. No new areas were reserved. The old areas stood distributed as under:—

Name.	Area in Bighas.
Bambholai ...	1,800
Sampa ...	544
Sowania ...	437
Deoli ...	1,400
Udesikua ...	1,329
Khamal ...	295
Sadawas ...	78¾
Bomadra ...	464¼
Miniari ...	1,303
Bala ...	1,136
Hemaliawas ...	150
Barsan ...	100
Gurha Bishnoyan ...	1,000
Pali ...	6,400
Nayagaon ...	100
Luni Badmer area ...	13,280
Total ...	29,817

51. The waste lands round about Jodhpur city comprising an area of about 10 sqr. miles were transferred to this head during the year.

52. The sowings of Babool, Khejra and other species were made as usual but with no good results owing to the sudden break in the rains.

53. The revenue and expenditure under this head came to.

Revenue ...	Rs. 1,086/3/9
Expenditure ...	„ 2,655/1/3
or a Deficit of Rs. ...	„ 1,568/13/6

Section C.—Arboriculture.

54. A new road at Maharaj Zalim Singhji's bungalow was taken in hand and 240 trees were planted on both sides of it at a distance of 40 feet apart.

55. Gaps were filled up in a number of places and 396 plants were thus utilised.

56. Public continued to take plants free for their private plantations. Only 100 trees were given during the year owing to unfavourable rainy season.

57. The old nurseries were maintained and kept in proper order during the year. They are, however, badly wanting in fruit trees which has proved a great drawback in making extensive plantations.

58. The following statement will show the number of plants in nurseries:—

Nim	716
Siris	54
Am	4
Jaman	25
Mohua	50
Gular	239
Miscellaneous	3,795

Total ... 4,883 against 23,780 of last year.

59. There were 23,323 plants in charge of the Department of which 3,541 received and 19,782 did not receive watering; while in the last year the total number of plants was 29,240.

The decrease under both the above heads is due to some of the nurseries and the plantations having been transferred to the Public Works Department.

60. The following gardens and other miscellaneous plantations were transferred to the Public Works Department during the month of June 1911:—

- (1) Mandore garden.
- (2) Balsamand „
- (3) Lalsagar „
- (4) Kaga „
- (5) Soorsagar „
- (6) Kailana „
- (7) Takhatsagar „
- (8) Rai-ka-Bagh „
- (9) Paota „
- (10) Kacheri „
- (11) New Bungalow called Junior's Bungalow garden.
- (12) Ratanada Tank garden.
- (13) Chhitar „
- (14) H. H.'s Palace „
- (15) Maharaja Kunwar's Bungalow garden.
- (16) H. H. the Maharaja Regent's Bungalow garden.
- (17) Assistant Resident's „ „
- (18) Residency „ „
- (19) Residency Surgeon's „ „
- (20) Lady Docter's Bungalow garden.
- (21) Sardar Samand garden.
- (22) Sojat City „
- (23) Kalloo „
- (24) Sadhri „
- (25) Desuri „
- (26) Jaswantpura „

61. Revenue amounted to Rs. 233 and expenditure to Rs. 11,974 during the year.

The expenditure under the various heads is detailed below:—

Forester	Rs.	300
Malies and Chokidars	,,	3,249
Bhishties	,,	3,670
Planting	,,	1,032
Fencing	,,	960
Sagries	,,	630
Mal, Lao, Gharlies &c.		...	,,	345
Grass and Corn	,,	1,571
Miscellaneous	,,	<u>217</u>
Total	,,	11,974

The following forms are appended:—

Form No:	46
,,	,,	52
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APPENDICES.

Annual Form No. 46.**Forest Department Marwar State. Area of Forests for 1910-11.**

State.	RANGE.	AREA ON 1ST OCTOBER 1910		Added.	Excluded or transferred to other heads.	AREA ON 1ST OCTOBER 1911.		No. & date of Kafiya & transfer.	REMARKS.
		Acres.	Equivalent in square miles			Acres.	Equivalent in square miles.		
				Protected	Forests.				
	Godhwar	124,230	194.11	124,230	194.11	...	
	Sojat	41,600	65.0	41,600	65.0	...	
	Sivana	3,840	6.0	3,840	6.0	...	
	Raipur	8,320	13.0	8,320	13.0	...	
	Ghanero	3,277	5.12	3,277	5.12	...	
	Bar	480	.75	480	.75	...	
	Barantia	960	1.50	960	1.50	...	
	Babra	960	1.50	960	1.50	...	
	Somel	1,920	3.0	1,920	3.0	...	
	Pi, Basi, Banwal, Maynpur, Kaliyatra and Bidad	7,360	11.50	7,360	11.50	...	
	Mokalsar, Ramnagar, Mewri, Gangrot, Gola, Piploon, Gudhannal.								
	Sauer, Kundal, Sela, Janpur, Mangi, Dhiran, Telwara and Bhagwan	21,760	34.0	21,760	34.0	...	
	Total protected Forests	214,707	335.48	214,707	335.48	...	
				Unclassified Forests.					
	Jodhpur waste lands	6,400	10.0	6,400	10.0	...	
	Fuel and Fodder Reserves	12,800	20.0	12,800	20.0	...	
	Total unclassified Forests	19,200	30.0	19,200	30.0	...	
	GRAND TOTAL	233,907	365.48	233,907	365.48	...	

* Treated as F. & F. R.

Annual Form No. 52.

Forest Department Marwar State. Register of Breaches of Forest Rules during 1910-11.

Forest Range and Civil Parganas.	Cases pending from 1909-10.	NEW CASES OF THE YEAR.						Total cases.	DISPOSED OFF DURING THE YEAR.						Cases pending on 1st October 1911.	REMARKS.
		Injury of Forests by fires.	Unauthorized felling or appropriation of wood and minor produce.	Grazing without permission or in the tracts in which grazing is prohibited.	Other offences.	Total new cases during the year.	Conviction.		Acquittals.		Total.					
							Cases.		Persons.	Cases.	Persons.	Cases.	Persons.			
<i>A.—Cases tried by Magistrate.</i>	1	1	1	
Bali	
Desuri	
Sojat	
Sivana	
Parbatsar	
Pali	
Raipur	
Ghanerao	
Total	2	12	7	11	2	10	9	21	3		
<i>B.—Cases compounded by Forest officials—</i>	
Godhwar	
Sojat	
Sivana	
Parbatsar	
Pali	
Raipur	
Ghanerao	
Total	...	3	111	26	39	179	170	170	401	179	401	
Grand Total	2	3	112	30	44	189	191	180	412	2	10	189	423	3		

Annual Form No. 53.

Forest Department Marwar State. Area of Forests tracts protected from fire during the year 1910-11.

Range.	Forest tracts.	Year in which protection commenced.	Area actually protected during the last dry season.	Area attempted to be protected.	Failures.	Actually protected during the year.	Cost.			Remarks.
							Rs.	a.	p.	
Raj Department.	{ Khalas ... }	Godhwar ...	1,891	1,23,704	1,24,230	2,130	1,22,100	181	...	
		Sojat ...	1,891	41,499	41,600	9	41,591	126	13 3	
		Siwana ...	1,898	3,840	3,840	...	3,840	
	{ Jagir ... }	Mokalsar, Ramania, Mewri, Gungrot, Gurha Nal, Naner, Golia Piploon, Kundal, Seia, Mangi, Janpur, Dhiran, Telwara, and Bhagwan ...	1,898	21,760	21,760	...	21,760	
		Pi, Basi, Banwal, Mayapur, Kal-yatra and Bidia ...	1,897	7,360	7,360	...	7,360	
Jagir.	Total Raj Department	1,98,163	1,98,790	2,139	1,96,651	307	13 3	
	{ Raipur ... }	Raipur ...	1,894	8,320	8,320	...	8,320	
		Ghanerao ...	1,895	3,277	3,277	1,280	1,997	4	12 ...	
		Bar, Barantia, Babra, Somel, ...	1,896	4,320	4,320	...	4,320	
	Total Jagir	15,917	15,917	1,280	14,637	4	12 ...	
Grand Total	2,14,080	2,14,707	3,419	2,11,288	312	9 3	

Annual Form No. 57.

Forest Department, Marwar State. Outturn (in cubic feet) of Timber and Fuel for the year 1910-11 and agency of exploitation.

Range.	TIMBER IN ROUGH LOGS.				TIMBER IN ROUGH POLES.					SWAN OR SQUARED TIMBER.				MISCELLANEOUS.				FUEL.				REMARKS.
	Raj Agency.	Purchasers.	Free grants.	Right-holders.	Total.	Raj Agency.	Purchasers.	Free grants.	Right-holders.	Total.	Raj Agency.	Purchasers.	Free grants.	Right-holders.	Total.	Raj Agency.	Purchasers.	Free grants.	Right-holders.	Total.		
Ray De- partment. { Godhwar Sojat Siwana Parbatsar Pali	72	173	66	979	1,290	20,013	2,047	948	29,622	52,060	319	16,74	2,807	3,246	...	1,17,786	1,78,355	...	1,08,056	4,65,097		
	11,451	1,752	225	3,770	17,201	51,055	42,940	...	1,170	95,165		
	4,789	...	1,770	6,559	360	10,787	...	2,007	92,244		
	971	971	
	
Total ...	72	173	66	979	1,290	31,497	8,588	1,173	35,162	76,420	349	16,74	2,807	3,246	...	1,69,201	2,42,053	...	1,72,223	5,83,477		
Jagir. { Raipur Ghanerao	86	933	...	2,635	3,654	17,709	...	7,500	25,209		
	2,438	...	2,658	5,096	3,780	...	10,597	14,377		
Total	86	3,371	...	5,293	8,750	21,489	...	18,097	39,586		
Grand Total ...	72	173	66	979	1,290	31,583	11,959	1,173	40,455	85,170	349	16,74	2,807	3,246	...	1,69,201	2,63,512	...	1,90,320	6,23,063		

Forest Department Marwar State. Outturn of Minor produce during the year 1910-11.

(19)

[illegible]

[illegible]

Annual Form No. 59. —Contd.

Forest Department Marwar State. Account of Timber and other produce cut or collected by Raj Agency and brought to sale Depôts or sold locally during the year 1910-11.

Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Remarks.
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.	
Upla	35				Dinger Dhao	752	...			
Kasi dandi	28				Do. Kamlai	48	...	2,168		
Pagi	25									
Bank	20									
Singri	1	...	781							
<i>Jodhpur Range:—</i>					<i>Sawan depôt:—</i>					
Kumat wood	256				Ins	300				
Sleeper	1	...	257		Upla	208				
					Dunda	465				
					Dinger Dhao	662				
					Do. Kamlai	79				
					Lath Jinji	10	...	1,721		
Total cross receipts			1,038							
Total receipts			1,87,813	297.5	<i>Kantalia depôt:—</i>					
			Mds. Srs. 138 30		Danda	399				
					Golia	20				
Grand Total			210,966	307.1	Kasi dunda	42	...	461		
			Mds. Srs. 138 30							
					<i>Bada Gudlia depôt:—</i>					
					Golia	25				
					Kasi danda	28				
					Dinger Dhao	320				
					Musai Khair	3				
					Pagi	8	...	384		
					<i>Khopia depôt:—</i>					
					Danda	253		253		

[illegible]

Forest Department Marwar State. Account of Timber and other produce cut or collected by Raj Agency and brought to sale Depots or sold locally during the year 1910-11.

Particulars.	No or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Remarks.
			No or quantity.	Cubic feet.	
Balance at commencement of the year:—					
Godhwar coupee 21,463-20 }					
depot Range 351-0 }					
Sojat " " "					
Swana " " "					
Recd. opt.					
(I) TACK RECEIVED.—					
RECEIVED FROM THE PORTERS.—					
Godhwar Range " " "					
Sojat " " "					
Swana " " "					
GAZETED BY REVENUE.—					
Godhwar Range " " "					
Sojat " " "					
Swana " " "					
UNGAZETED ON ACCOUNT OF COMMISSION IN LAST YEAR.—					
Jodhpur " " "					
TAZED BY LOAN TAKEN FROM COMMISSIONERS.—					
TRACIONS.—					
Godhwar Range:—					
NAVY DEPOT:—					
Noora Ah " "					
CHIVRELA DEPOT.—					
Jwar Shive Div.					
CHIVRELA DEPOT.—					
Shive Div					
Sojat Range:—					
MAHARAJA JUNCTION DEPOT.—					
Teh Nizam " " "					

Annual Form No. 59.—Contd.

Forest Department Marwar State. Account of Timber and other produce cut or collected by Raj Agency and brought to sale Depots, or sold locally during the year 1910-11.

Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Remarks.
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.	
Balance at commencement of the year:—										
Godhwar Range	...	Mds. Srs.			Disposals.— (1) TRUE DISPOSALS. Supplied to the contractors who advanced the money in past. Godhwar Range, Mali Rudha, Sojat Range, Nizam Bisayti Hira Lal Chhotmal Hematmal Jas Raj Sold Locally.— Godhwar Range, Through Head office Miscellaneous Sojat Range.— Supdt Jail Bikaner Miscellaneous Jodhpur Depot Utilised by the Department Godhwar Range Sojat Range Struck off on account of wastage or being lost in transit Godhwar Range Jodhpur Depot					
Sojat "	...	230 30	737 22			253 23		253 23		
Jodhpur "	...	470 32				571 29				
	...	36 0				2,101 29				
Total Balance	...				536 18			3,209 36		
Receipts.—										
(1) TRUE RECEIPTS.										
Received from the forests.										
Godhwar Range	...	Mds. Srs.			Disposals.— (1) TRUE DISPOSALS. Supplied to the contractors who advanced the money in past. Godhwar Range, Mali Rudha, Sojat Range, Nizam Bisayti Hira Lal Chhotmal Hematmal Jas Raj Sold Locally.— Godhwar Range, Through Head office Miscellaneous Sojat Range.— Supdt Jail Bikaner Miscellaneous Jodhpur Depot Utilised by the Department Godhwar Range Sojat Range Struck off on account of wastage or being lost in transit Godhwar Range Jodhpur Depot					
Sojat Range	...	678 23				292 29		437 9		
Received by reweighing	...	4,651 30				144 20				
Godhwar Range	...	18 22				31 20				
Sojat Range	...	0 28½			46 30		78 10			
Received by purchase, Jodhpur	...	18 30			115 16		115 16			
Loan taken from Amirula contractor at Sojat	...	18 25			3 36		11 34			
Total true receipts	...				7 38					
(II) CROS RECEIPTS.										
Jodhpur depot	...	104 6			171 24		215 4			
Total cross receipts	...				43 20					
Total receipts	...						4,321 12			
GRAND TOTAL	...						104 6			
	...						104 6			
	...						4,425 18			

Balance at commencement of the year:—			
Godhwar Range	...	4,167	...
Sojat	...	413	...
Pali	...	6,483	...
Jodhpur	...	1,668	...
Total
Receipts—			
(1) TRUE RECEIPT.			
Received from the Forests.	...	28,114	...
Godhwar Range
Total receipts	...	28,114	...
GRAND TOTAL	...	40,845	...
Balance at close of the year.			
Godhwar Range.
Nana Depot
Sadri
Desuri
Bagol
Bali
Erinpura Road Depot
Sojat Range.
Saran Depot
Kantalia
Bada gurha
Kloria
Sojat Road
Siriyari
Kot
Total Balance
GRAND TOTAL
Disposals.—			
(1) TRUE DISPOSALS.			
Removed by purchasers from depot.
Godhwar Range
Pali
Jodhpur
Utilised by the Department.
Godhwar Range
Pali
Struck off on account of wastage or being lost in transit
Godhwar Range
Total disposals
Balance at close of the year.
Godhwar Range.
Behra depot
Sewari
Bali
Erinpura
Total

Siwana Range.—		Mds. Srs.		No.	
Grass for famine	...	1,434	0
Parbatwar Range.—
Hide (No.)	...	4	60
Munji Pula
Luni Badmer line, grass
Jodhpur Range.—
Honey	...	1	13
Churi Lakh	...	3	34
Total Balance
Receipts.—					
(1) Received from Forest.
Godhwar Range.—
Mohiya (Hd. Id.)	...	2	2
Farangan "
Grass Pula system
Sojat Range.—
Hide No.	...	274
Gunda fruit
Grass Pula system
(2) Received from Fuel and Fodder
Reserves Hemla-was Plantation.
Sojat Range.—
Grass	...	135	0
Total Receipts
GRAND TOTAL

Annual Form No. 61.—Continued.

Forest Department, Marwar State. Summary of Expenditure of different Ranges in Marwar Forests during the year 1910-11.

Budget Heads	Direction.	Godhwar.	Sojat.	Sivana.	Parbatsar.	Pali.	Jalore.	Jaswant-pura.	Total.	Remarks.
A.—Conservancy and works.										
I. Timber and other produce removed from the Forest by Raj Agency—										
(a) Timber ...	235	3,108	1,462	177	4,682	14 9
(b) Firewood and charcoal ...	2,569	8,320	4,669	5	16,085	7 ...
(c) Bamboos	251	251	3 3
(d) Grass and other minor produce	33	20	62	3 6
II.—Timber and other produce removed from the Forests by purchasers or consumers—										
III.—Confiscated, drift and waif wood.										
IV.—Revenue from Forest not managed by Raj—										
(a) Duty on foreign timber and other forest produce	72	72	...
(b) Revenue from shared and private forest	120	120	...
V.—Revenue from leased forests and payments to share holders in forests managed by Raj:—										
VI.—Live stocks, stores, Tools and plants:—										
(a) Purchase of cattle
(b) Feed and keep of cattle	72	72	7 ...
(c) Purchase of stores, Tools and Plants ...	25	1	2	10	6	29	8 9
VII.—Communications and buildings:—										
(a) Roads and Bridges	19	105	13	6	145	8 3
(b) Buildings
(c) Other works
VIII.—Demarcation, Improvement and extension of Forests:—										
(a) Demarcation
(b) Compensation of lands
(c) Surveying and Working Plans ...	49	9	1,890	102	9	9,042	12 9
(d) Sowing and Planting ...	55	68	170	16	13	131	442	13 3
(e) Protection from fire	181	126	307	13 3
(f) Other works
IX.—Miscellaneous:—										
(a) Refunds
(b) Law charges
(c) Other works ...	19	3	109	170	6	305	13 6
Total A. Conservancy ...	2,955	12,559	8,459	308	9	309	24,600	15 3

*Includes Rs. 394 for survey.

Annual Form No. 61.—*Continued.*

[illegible]

Annual Form No. 62.

Forest Department Marwar State. Account current for the year 1910-11.

	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.
Cash Balance (Imprest)	9,200	0 0
Revenue as per Annual Form No. 61 :—								
Forest conservancy ...	56,417	10 0	57,737	5 3
Arboriculture ...	233	7 6
Fuel and Fodder Reserves ...	1,086	3 9
Expenditure as per Annual Form No. 61.								
Forest conservancy ...	43,413	0 9
Arboriculture ...	11,973	13 8
Fuel and Fodder Reserves ...	2,655	1 3	58,041	15 3	58,041	15 3
Advances by recoupment of Imprest & direct payments from Treasuries & adjustment by book transfer	58,041	15 3	250	0 0
Temporary Imprest for <i>Sarbra</i> of State guests remitted to treasury	200	0 0
Balance	8,750	0 0
Total	1,24,979	4 6	1,24,979	4 6

Annual Form No. 63.

Forest Department Marwar State. Revenue and outstandings on account of Revenue during 1910-11.

Range.	Particulars.	Balance at commencement of the year.		Values of Sales.		Total.		Realised during the year.		Balance.		Remarks.
		Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	Rs.	a. p.	
...	...	34	12 0	26,910	1 9	26,944	13 9	26,919	9 9	25	4 0	
...	Forest Conservancy	10,823	1 9	10,977	10 9	10,873	7 9	104	3 0	
...	"	154	9 0	1,443	1 3	
...	"	1,443	1 3	1,443	1 3	
...	"	462	9 6	462	9 6	462	9 6	
...	"	498	10 9	309	8 9	189	2 0	
...	"	339	2 0	159	8 9	50	14 6	
...	"	50	14 6	50	14 6	
...	"	6	12 0	
...	"	6	12 0	
...	"	20,594	0 9	17,671	5 9	2,922	11 0	
...	"	2,976	10 9	17,617	6 0	
...	Arboriculture & F. & F. Reserves.	
...	Jaswantpura	
...	Jodhpur & Direction	
...	Total	3,505	1 9	57,173	7 6	60,978	9 3	57,737	5 3	3,241	4 0	

Annual Form No. 65.

Forest Department Marwar State, Financial Results for the year 1910-11.

Ran' ge.	Jodhpur and Direction	TIMBER AND OTHER PRODUCE REMOVED FROM THE FOREST BY RAJ AGROV.		OTHER REVENUE.		Formation protection and improve- ment of Forest charges	TOTAL.		Remarks.
		Receipts	Charges.	Receipts.	Charges.		Receipts.	Charges.	
...	...	10,994	2,805	5,358	8,702	105	16,352	11,612	
...	...	17,158	12,213	9,762	4,258	250	26,920	16,721	
...	...	4,613	5,861	6,260	3,212	2,188	10,873	11,281	
...	...	2	5	1,441	2,031	118	1,443	2,154	
...	463	729	463	729	
...	...	305	178	4	3	132	209	313	
...	51	408	51	408	
...	7	215	7	215	
Total		33,072	21,062	23,340	19,558	2,793	56,418	43,413	
...	...	75	13	3,822	731	8	3,897	752	
...	1,323	238	16	1,328	254	
...	130	105	130	105	
...	78	84	78	84	
...	58	46	58	46	
...	320	100	320	100	
Total		75	13	5,736	1,304	24	5,811	1,341	
Grand Total		33,147	21,075	29,082	20,862	2,817	62,229	44,754	